RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR			PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	PPPP	AAAA	AAAA AAAA	AA DDDDDDDDDDD		
RRR	FRR	III	PPP	PPP	AAA	AAA	DDD	DDD	
RRR	RRR	III	PPP	PPP	AAA	AAA	DDD	DDD	
RRR	RRR	III	PPP	PPP	AAA	AAA	DDD	DDD	
RRR	RRR	TTT	PPP	PPP	AAA	AAA	DDD	DDD	
RRR	RRR	TTT	PPP	PPP	AAA	AAA	DDD	DDD	
RRR	RRR	TTT	PPP	PPP	AAA	AAA	DDD	DDD	
RRRRI	RRRRRRRR	TTT	PPPPPPPP	PPPP	AAA	AAA	DDD	DDD	
RRRR	RRRRRRRR	TTT	PPPPPPPP	PPPP	AAA	AAA	DDD	DDD	
RRRRI	RRRRRRRR	TTT	PPPPPPPP	PPP	AAA	AAA	DDD	DDD	
RRR	RRR	İİİ	PPP			AAAAAAA	DDD	DDD	
RRR	RRR	iii	PPP			AAAAAAA	DDD	DDD	
RRR	RRR	ŤŤŤ	PPP			AAAAAAA	DDD	DDD	
RRR	RRR	ŤŤŤ	PPP		AAA	AAA	DDD	DDD	
RRR	RRR	tit	PPP		AAA	AAA	DDD	DDD	
RRR	RRR	İİİ	PPP		AAA	AAA	DDD	DDD	
RRR	RRR	ttt	PPP		AAA	AAA	DDDDDDD		
RRR	RRR	iii	PPP		AAA	AAA	DDDDDDD		
RRR	RRR	iii	PPP		AAA	AAA	DDDDDDD		

00000000 00000000 00000000 00000000000		DDC DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	NN NN NN NN NN NN NN NN NN NN NN NN NN	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	
		\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$				

CIDSENSE - CIDRIVER SENSE MODE PROCESSING E 3

(2) 67 DECLARATIONS (3) 298 CI_POSI_SENSE - Map TSA into VMS

CTD VO4

- CTDRIVER SENSE MODE PROCESSING

0000

14

16-SEP-1984 02:24:25 VAX/VMS Macro V04-00 5-SEP-1984 03:14:35 [RTPAD.SRC]CTDSENSE.MAR;1

Page 1

```
1 .IF DF RTPAD
2 .TITLE CTSETRT - RTPAD/CTERM SET CHARACTERISTICS
3 .IFF
4 .TITLE CTDSENSE - CTDRIVER SENSE MODE PROCESSING
5 .ENDC
6 .IDENT 'V04-000'
7 .ENABLE SUPPRESSION
```

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FACILITY:

;++

38 39

45 45

CTERM Remote terminal protocol driver

ABSTRACT:

This module is called to map a characteristics item list received from the net into VMS terminal characteristics.

ENVIRONMENT:

AUTHOR: Jake VanNoy, CREATION DATE: 23-Aug-1982

MODIFIED BY:

V03-003 JLV0336 Jake VanNoy 28-FEB-1984 Use constant names in SENSETAB table.

- CTDRIVER SENSE MODE PROCESSING G 3 16-SEP-1984 02:24:25 VAX/VMS Macro V04-00 Page 5-SEP-1984 03:14:35 [RTPAD.SRC]CTDSENSE.MAR;1
0000 58 : V03-002 JLV0288

CTD VO4

```
CTDSENSE
VO4-000
                                                                                                                        16-SEP-1984 02:24:25 VAX/VMS Macro V04-00 5-SEP-1984 03:14:35 [RTPAD.SRC]CTDSENSE.MAR;1
                                                     - CTDRIVER SENSE MODE PROCESSING
                                                                                                                                                                                                                     (2)
                                                     DECLARATIONS
                                                                                            .SBTTL DECLARATIONS
                                                                                  INCLUDE FILES:
                                                             0000
0000
0000
0000
0000
0000
0000
                                                                                            SDCDEF
                                                                                            $SSDEF
                                                                                            STTDEF
STT2DEF
STSADEF
                                                                                            SUCBDEF
                                                                                                                                   ; for protocol errors
                                                                                  MACROS:
                                                             0000
0000
0000
0000
0000
0000
0000
0000
                                                                               .MACRO
                                                                                            CHAR
                                                                                                         LABEL
                                                                                                                      char type!char count LABEE-SENSE_ROUTINES
                                                                                             . WORD
                                                                                            . WORD
                                                                               char count = char_count + 1
.ENDM CHAR
                                                                                            BAUDTAB BPS
.WORD BPS
                                                                               .MACRO
                                                                                            BAUDTAB TT$C_BAUD_'BPS'
                                                                               . ENDM
                                                                                            TERMTAB TERM, VALUE
.BYTE VALUE
.ASCIC /TERM/
TERMTAB
                                                             0000
                                                                               .MACRO
                                                             0000
                                                             0000
                                                             0000
                                                                               . ENDM
                                                             0000
                                                                               .MACRO
                                                                                            SENSETAB CHAR
                                                             0000
                                                                                             WORD
                                                                                                                      char_type!char
                                                             0000
                                                                               . ENDM
                                                                        100
                                                                                            SENSETAB
                                                             0000
                                                                        101
                                                             0000
                                                             0000
                                                                        103
                                                                        104
105
106
                                                                              : EQUATED SYMBOLS:
                                                             0000
                                                             0000
                                                             0000
                                                                        107 physical = ch$c_physicala8
108 logical = ch$c_logicala8
109 cterm = ch$c_cterma8
                                            00000000
                                                             0000
                                                                                                                                                ; 0 leftshifted 1 byte
; 1 leftshifted 1 byte
; 2 leftshifted 1 byte
                                            00000100
                                                             0000
                                                             0000
                                                                        110

111 IT_BUF = 0

112 IT_CHAR1 = 4

113 IT_CHAR2 = 8

114 IT_IOSB = 0
                                            00000000
00000004
00000008
00000000
                                                                                  OWN STORAGE:
                                                                        118
                                                             0000
                                                                               . IF DF RTPAD
                                                                                            .PSECT RTPAD, NOWRT
```

.EXTERNAL OUTBAND_NEW

CTD VO4

```
CTDSENSE
V04-000
```

```
16-SEP-1984 02:24:25 VAX/VMS Macro V04-00 
5-SEP-1984 03:14:35 [RTPAD.SRC]CTDSENSE.MAR;1
            - CTDRIVER SENSE MODE PROCESSING
                                                                                                                                                                                                                                                   (2)
            DECLARATIONS
              00000000
0000
0000
0000
0000
                                        .IFF
                                                                      .PSECT $$$115_DRIVER,LONG
                                                  .ENDC
                                                  SENSE_TABLE:
00000000
                       0000
0000
0000
0004
0008
0001
0014
0018
0010
0024
0028
                                                 char_type = physical
char_count = 1
                                                                                       INPUT_SPEED
OUTPUT_SPEED
CHARACTER_SIZE
PARITY_ENABLE
PARITY_TYPE
MODEM_PRESENT
AUTOBAUD_DETECT
MANAGEMENT_GUARANTEED
SWITCH_CHAR_1
SWITCH_CHAR_2
                                                                     CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                     CHAR
00000100
                                                 char_type = logical
char_count = 1
                                                                                       MODE WRITING ALLOWED TERMINAL TYPE TERMINAL SUBTYPE OUTPUT FLOW CONTROL OUTPUT PAGE STOP FLOW CRAR PASS THRU INPUT FLOW CONTROL LOSS NOTIFICATION LINE WIDTH PAGE LENGTH STOP LENGTH CR FILL LF FILL WRAP HORIZONTAL TAB
                                                                      CHAR
                                                                                                                                                      11
12
13
14
15
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                                       HORIZONTAL TAB
VERTICAL TAB
FORM_FEED
                                                                     CHAR
                                                                                                                                                      16
                                                                      CHAR
                        0068
                                                                     CHAR
                       006C
006C
006C
006C
0070
0074
0078
0080
0084
0088
                                         164
165
166
167
168
169
170
171
172
173
174
177
178
179
180
00000200
                                                 char_type = cterm
char_count = 1
                                                                                       IGNORE INPUT
CHAR ATTRIBUTES
CONTROL O PASS_THRU
RAISE INPUT
NORMAL ECHO
INPUT ESCAPE ENABLE
OUTPUT ESCAPE ENABLE
INPUT COUNT STATE
AUTO PROMPT
ERROR PROCESSING
                                                                     CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                      CHAR
                                                                                        ERROR_PROCESSING
                                                                     CHAR
                                                                      . WORD
         FFFF
                                                                                                                                                 ; End of list (any negative number)
```

```
- CTDRIVER SENSE MODE PROCESSING DECLARATIONS
CTDSENSE
VO4-000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VAX/VMS Macro V04-00
ERTPAD.SRCJCTDSEMSE.MAR; 1
                                                                                                                                                                                                                                                                                                                                             ; Table must be in ascending order
                                                                                                                                                                                                                                                                                                                                                                                                                                         BAUDTAB
BAUDTAB
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BAUDTAB
                                                                                                                                                                                                                                                                                           00B1
00B4
00B7
00BA
                                                                                                                                                                                                              00000000
                                                                                                                                                                                                                                                                                                                                                                         CTSAB_TERM_TABLE::
TERMTAB VT100,
TERMTAB VT200,
TERMTAB VT101,
TERMTAB VT102,
TERMTAB VT105,
TERMTAB VT131,
TERMTAB VT132,
TERMTAB VT132,
TERMTAB VT132,
TERMTAB VT132,
TERMTAB VT173,
TERMTAB TTS_FT1
TERMTAB TTS_FT2
TERMTAB TTS_FT3
TERMTAB TTS_FT3
TERMTAB TTS_FT4
TERMTAB TTS_FT5
TERMTAB TTS_FT6
TERMTAB TTS_FT7
TERMTAB TTS_FT8
TERMTAB LA36,
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                                                                                                                                                                                                                                                                                           00CA
00CA
00CA
00D1
00D8
00DF
00E6
00ED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Table is in order for most likely first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TT$_VT100
TT$_VT200_Series
TT$_VT101
TT$_VT102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TT$_VT05
TT$_VK100
TT$_VT173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TT$ LA100
                                                                                                                                                                                                                                                                                                                                                                                                                                              .BYTE
                                                                                          4E 57 4F 4E 4B 4E 55 00'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .ascic /UNKNOWN/
                                                                                                                                                                                                                                                                                                                                                                                . IF NDF RTPAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; IF CTDRIVER...
                                                                                                                                                                                                                                                                                                                                                236 CTP$AB_SENSEBUF ::
```

```
16-SEP-1984 02:24:25 VAX/VMS Macro V04-00 
5-SEP-1984 03:14:35 [RTPAD.SRC]CTDSENSE.MAR;1
           - CTDRIVER SENSE MODE PROCESSING
                                                                                                                                                                                                                                 Page
                                        CTP$C_MT_READ_CHAR
                                                                    .BYTE
                                                                                                                                                                 ; message type
; flags
                                                 ; Item list, for now, request everything.
00000000
                                                char_type = physical
                                                                                                        ch$c_ph_in_speed
ch$c_ph_out_speed
ch$c_ph_char_size
ch$c_ph_parity_enable
ch$c_ph_parity_type
ch$c_ph_modem_present
ch$c_ph_autobaud
ch$c_ph_manage_guar
ch$c_ph_switchT
ch$c_ph_switch2
ch$c_ph_manage_ena
                                                                                                                                                                 : INPUT_SPEED
: OUTPUT_SPEED
: CHARACTER_SIZE
                                                                    SENSETAB
SENSETAB
                       0161
                                                                    SENSETAB
                                                                                                                                                                : CHARACTER_SIZE
: PARITY_ENABLE
: PARITY_TYPE
: MODEM_PRESENT
: AUTOBAUD_DETECT
: MANAGEMENT_GUARANTEED
: SWITCH_CHAR_1
: SWITCH_CHAR_2
: MANAGEMENT_ENABLED
                                                                    SENSETAB
                        0167
                                                                    SENSETAB
                       0169
                                                                    SENSETAB
                       016B
                                                                    SENSETAB
                       016D
                                                                    SENSETAB
                                                !!!
                       016D
                                                                    SENSETAB
                       016D
                                                                    SENSETAB
                                                 :::
                       016D
                                                                    SENSETAB
                                                :::
                       016D
00000100
                       016D
                                                char_type = logical
                                                                                                       ch$c_lg_mode_writing
ch$c_lg_term_bits
ch$c_lg_term_type
ch$c_lg_output_flow
ch$c_lg_page_stop
ch$c_lg_flow_char_pass
ch$c_lg_input_flow
ch$c_lg_loss_notif
ch$c_lg_loss_notif
ch$c_lg_line_width
ch$c_lg_page_length
ch$c_lg_stop_length
ch$c_lg_stop_length
ch$c_lg_cr_fill
ch$c_lg_ff_fill
ch$c_lg_wrap
ch$c_lg_wrap
ch$c_lg_wrap
ch$c_lg_wrap
ch$c_lg_hor_tab
ch$c_lg_form_feed
                       016D
                                                                                                                                                                : MODE WRITING ALLOWED
TERMINAL TYPE
TERMINAL SUBTYPE
OUTPUT FLOW CONTROL
OUTPUT PAGE STOP
FLOW CHAR PASS THRU
INPUT FLOW CONTROL
LOSS NOTIFICATION
LINE WIDTH
PAGE LENGTH
STOP LENGTH
CR_FILL
LF_FILL
                       016D
                                                                    SENSETAB
SENSETAB
                       016F
                                                                    SENSETAB
                                                                                                                                                                     LF FILL
                                                                    SENSETAB
                                                                    SENSETAB
                                                                    SENSETAB
                                                                                                                                                                     HORIZONTAL_TAB
                                                                                                                                                                     VERTICAL_TAB
                                                                    SENSETAB
                                                                    SENSETAB
                                                                                                                                                                  ; FORM_FEED
00000200
                                                 char_type = cterm
                                                                                                                                                               : IGNORE_INPUT
: CHAR_ATTRIBUTES
: CONTROL O PASS_THRU
: RAISE_IRPUT
: NORMAL_ECHO
: INPUT_ESCAPE_ENABLE
: OUTPUT_ESCAPE_ENABLE
: INPUT_COUNT_STATE
: AUTO_PROMPT
                                                                                                        ch$c_ct_ignore_input
ch$c_ct_char_att
ch$c_ct_ctrlo_pass
ch$c_ct_raise_input
ch$c_ct_normal_echo
ch$c_ct_input_esc
ch$c_ct_input_esc
ch$c_ct_input_count
ch$c_ct_auto_prompt
ch$c_ct_auto_prompt
                                                                    SENSETAB
                       0191
                                                                    SENSETAB
                        019
                                                                    SENSETAB
                                                                    SENSETAB
                                                                    SENSETAB
                                                                    SENSETAB
                                                                    SENSETAB
                                                                    SENSETAB
                                                                    SENSETAB
                                                                                                         ch$c_ct_error_processing : ERROR_PROCESSING
                                                                    SENSETAB
                                                 CTP$K_SENSEBUF == .-CTP$AB_SENSEBUF
00000042
                                                                                                                                                                : Size
```

CTD Sym

- CTDRIVER SENSE MODE PROCESSING DECLARATIONS

294 .ENDC 295 .nlist meb 296

019F 019F 019F

16-SEP-1984 02:24:25 VAX/VMS Macro V04-00 [RTPAD.SRC]CTDSENSE.MAR;1

Page

(2)

CTD Sym

PSE

SAB

```
CTDSENSE
VO4-000
                                                  - CTDRIVER SENSE MODE PROCESSING CT_POST_SENSE - Map TSA into VMS
                                                                                                                  16-SEP-1984 02:24:25 VAX/VMS Macro V04-00 
5-SEP-1984 03:14:35 [RTPAD.SRC]CTDSENSE.MAR:1
                                                                                                                                                                                                Page
                                                                           .SBTTL CT_POST_SENSE - Map TSA into VMS
                                                                              Must map entire set of characteristics returned into VMS sense mode data
                                                                           ; Input:
                                                                                       R2 - Address of CTP
R9 - Address of 12 byte buffer
R10 - Address of 8 byte buffer
                                                                              Output:
                                                                                       O(R9) - first longword of sense mode data
4(R9) - first longword of sense mode characteristics
8(R9) - second longword of sense mode characteristics
                                                                                       O(R10) - first longword of status
4(R10) - second longword of status
                                                                              Characteristics returned: (R9)
                                                                                            page width ! type ! class !
                                                                                        !length !
                                                                                                             characteristics
                                                                                        +-----
                                                                                                   characteristics
                                                                             IOSB: (R10)
                                                                                        +-----+
                                                                                        !R speed!T speed!
                                                                                        1 0 | parity | LF fill| CR fill|
                                                                          .IF DF RTPAD
CT_CHAR_MSG::
.IFF
CT_POST_SENSE::
                                                                                                                      : RTPAD ENTRY
                                                                                                                           : CTDRIVER ENTRY
                                                                     340 .ENDC
                                      28 A2
20 A2
51
03
                                                                                                   CTP$W_MSGSIZE(R2),R1
CTP$W_CH_PARAM(R2),R2
R1,R2,-(SP)
#3,(SP); ***
                                                                                                                                      : Fetch size of buffer
: Set address of first characteristic
: Save end address on stack
                                                   3C
9E
C1
C2
                                                                                       MOVZWL
                                                                                       MOVAB
ADDL3
SUBL2
                                                                                                                             : *** fudge, check this **
                                      42 8F
                                                                                                    #DC$_TERM.TT_BUF(R9) ; Set terminal class
#SS$_NORMAL,TT_IOSB(R10); Set status
                                                                                        MOVB
                                                                    348
349
350 10$:
351
352
353
354
                                                                                       MOVW
                                                   D1
18
30
9E
                                                                                                   R2 (SP)
25$
(R2)+,R6
                                                                                                                                       ; Hit end of list yet?
; Branch if so
; Get parameter
; Get table address
                                                          01B5
                                                                                        CMPL
```

BGEQ

MOVZWL MOVAB

SENSE_TABLE,R7

56 FE3F

01BA

CTD

Pha

Ini Com Pas

Sym Pas Sym Pse

Cro ASS

Mac

\$2 \$2 \$2 \$2 \$2 \$0 \$2

165

The

MAC

CTDSENSE V04-000			CT_F	OST_SE	SENSE MODE NSE - Map TS	SA into VI	NG 16-SEP-1984 MS 5-SEP-1984	03:14	4:25 VAX/VMS Macro VO4-00 Page 4:35 [RTPAD.SRC]CTDSENSE.MAR;1
	8	7 56 00 87 F7	B1 13 B5 18	01C2 01C5 01C7 01C9	355 20\$: 356 357 358 359	CMPW BEQL TSTW BGEQ	R6,(R7)+ 30\$ (R7)+ 20\$:	Compare to table entry Branch if match found Advance pointer past routine Loop if greater than or equal to zero
				01CB 01CB	361 362 363 25\$:	PANI	C ERROR	;	'invalid sense mode returned' Increment error count, then exit
		01C8	D5 31	01CF 01D1 01D4		TSTL BRW	(SP)+ POST_SENSE_EXIT	;	throw away end address exit code
				0104	368 :	patch to	routine		
5	6 00000		9E 3C CO 16	01D4 01DB 01DE 01E1	369 30\$: 370 371 372 373	MOVAB MOVZWL ADDL2 JSB BRB	SENSE ROUTINES,R6 (R7),R7 R6,R7 (R7)		Base get routine address Add offset to base for routine address jsb to routine Do next parameter

			- CT_P	DRIVER OST_SEN	SENSE	MODE P	ROCESSIN	G B 4 16-SEP-1984 02 5-SEP-1984 03	2:24:25 VAX/VMS Macro VO4-00 Page 10 3:14:35 [RTPAD.SRC]CTDSENSE.MAR;1 (4)	
				01E5 01E5 01E5	381 382 383	SENSE_R ; physi	OUTINES:			
03	50 AA	82 0F 50	B0 10 90 05	01E5 01E5 01E8 01EE 01EF	33333333333333333333333333333333333333	INPUT_S	PEED: MOVW BSBB MOVB RSB	(R2)+,R0 GET_SPEED RO,TT_IOSB+3(R10)	<pre>; physical 1 ; Get speed ; map into TT\$C_BAUD_xxxx ; set receive speed ; Return</pre>	
02	50 AA	82 05 50	B0 10 90 05	01EF 01F2 01F4 01F8	391 392 393 394 395 396	OUTPUT_	SPEED: MOVW BSBB MOVB RSB	(R2)+,R0 GET_SPEED RO,TT_IOSB+2(R10)	<pre>; physical 2 ; Get speed ; map into TT\$C_BAUD_xxxx ; set transmit speed ; Return</pre>	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
				01F9 01F9 01F9 01F9 01F9 01F9 01F9	378990123345678990123 440440440441123	Local Input Outpu	: RO - ba	to map speed into TT\$C_E ud rate in BPS		the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or the second new law or
51	FE99	CF	9E	01F9 01F9 01F9 01FE	404 405 406 407	GET_SPE 110\$:		ud rate in TT\$C_BAUD_xxx SENSE_BAUD,R1	; Get table	-
	50 50	50 08 81 F7 10 61	B1 15 95 12 90 05 90	01FE 0201 0203 0205 0207 020A 020B	414	120\$:	CMPW BLEQ TSTB BNEQ MOVB RSB MOVB RSB	RO,(R1)+ 120\$ (R1)+ 110\$ #TT\$C_BAUD_19200,R0 (R1),R0	<pre>; compare ; Advance ; Branch if not zero ; Assume 19200 if > 19200 ; Return ; Fetch baud rate symbol value ; Return</pre>	
				020E 020F 020F 020F 020F 020F	416 417 418 419 420		ER SIZE: RTF.D BICL	#TT\$M_EIGHTBIT,- TT_CHAR1(R9)	; physical 3 ; Set characteristic	-
0000	82 08000 04	07 08 8F	B1 18 C8	020F 020F 0212 0214	4190 421 4223 4224 4227 4227	.ENDC	CMPW BGEQ BISL	#7,(R2)+ 10\$ #IT\$M_EIGHTBIT,- TT_CHĀR1(R9)	; Character size ; exit if less than or equal to 7 ; Set characteristic	
		n,	05	021C 021D 021D 021D	428	10\$: PARITY_ .IF DF	RSB ENABLE: RTPAD		; Return ; physical 4	
	50	82	90	021D 021D 021D 021D	43123 4334 4334 4337 4337	.ENDC	MOVB	#TT\$M_PARITY TT_105B+6(R10) (R2)+,R0	; Set parity enabled ; Get boolean	
	05 40 06	82 50 8F AA	90 E9 88	0220 0223 0226 0228	434 435 436 437	10\$:	MOVB BLBC BISB RSB	#TTSM_PARITY TT_105B+6(R10)	<pre>; Branch if not enabled ; Set parity enabled ; Return</pre>	

		CT_P	DRIVER POST_SEN	SENSE MODE NSE - Map TS	PROCESSIN A into VM	G 16-SEP-1984 0 5-SEP-1984 0	2:24	4:25	VAX/VMS Macro V04-00 [RTPAD.SRC]CTDSENSE.MAR;1	Page	11(4)
			0229 0229 0229 0229	442	TYPE: RTPAD BICB	#TT\$M_ODD,- TT_IOSB+6(R10)			ical 5 ne even parity		
	50 82 50 02 05 80 8F 06 AA	3C B1 12 88	0229 0220 0220 0221	446	MOVZWL CMPW BNEQ BISB	(R2)+,R0 #ch\$c_parity_odd,R0 10\$ #TT\$M_ODD,- TT_IOSB+6(R10)	:	If no	parity number		
	06 AA	05	0234 0236 0237	448 449 10\$:	RSB	TT_105B+6(R10)	;	Set of Retur	odd parity n		
			0237	448 449 10\$: 450 451 MODEM 452 .IF DF	PRESENT: RTPAD BICL	WATTEN MODERIL	;	phys	ical 6		
			0237	454 455 .ENDC 456 457	BILL	# <tt\$m_modem!- TT\$M_REMOTE>,TT_CHAR1(</tt\$m_modem!- 			modem and remote bits		
04 A9 002	50 82 08 50 202000 8F	90 E9 C8	0237 023A	456 457	MOVB BLBC BISL	(R2)+,R0 R0,10\$ # <tt\$m_modem!-< td=""><td>;</td><td>Get Brand</td><td>Boolean th if not enabled</td><td></td><td></td></tt\$m_modem!-<>	;	Get Brand	Boolean th if not enabled		
04 87 000	202000 Br	05	0245	458 459 460 10\$: 461	RSB	TTSM_REMOTE>,TT_CHAR1(R9)	; Set	modem and remote bits		
			0246 0246	462 AUTOBA 463 . IF DF	UD DETECT		:	phys	ical 7		
			0246 0246	464 465	BICL	#TT2\$M_AUTOBAUD,- TT_CHAR2(R9)	:	Set a	outobaud		
	50 82	90 E9 C8	0246 0249	462 AUTOBA 463 .IF DF 464 465 466 .ENDC 467	MOVB	(R2)+,R0 R0,10\$ #TT2\$M_AUTOBAUD,-	:	Get B	Boolean th if not enabled		
	08 A9	05	024C 024E 0250	470 471 10\$:	BISL RSB	TT_CHAR2(R9)	;	Set a Retur	outobaud 'n		
	50 82	90	0251 0251 0251	472 473 MANAGE	MENT GUAR	ANTEED: (R2)+,R0	:	phys i	cal 8 Boolean The if not enabled		
	00 50	90 E9 05	0254 0257 0258	474 475 476 10\$: 477 478 SWITCH	BLBC RSB	RO,10\$:	Brand	h if not enabled n		
	013A	30 05	0258 0258 0258	478 SWITCH 479 480 481	-CHAR 1: BSB0 RSB	IGNORE_STRING	:	physi Ignor Retur	cal 9 e this string data n		
	0136	30 05	025C 025C 025F 0260	480 481 482 SWITCH 483 484 485	CHAR 2: BSB0 RSB	IGNORE_STRING	:	I gnor Retur	cal 10 e this string data 'n		

			CT_P		NSE MODE PRO		S 16-SEP-1984 03	2:24	4:25 VAX/VMS Macro V 4:35 [RTPAD.SRC]CTD	04-00 SENSE.MAR;1	Page	12 (5)
	⁵⁰ 00	82 50	90 E9 05	0263 4 0266 4 0267 4	91 92 10\$: F	TING_AL MOVB BLBC RSB TYPE:	LOWED: (R2)+,R0 R0,10\$		logical 1 Get Boolean Branch if not enable Return logical 2	ed		
	50 01000 04 50 01000 04	A9 01 8F	3C C8 E0 CA	0267 0267 0267 0267 0267 0270 0270 0276 0276	98 ; 1 99 ; 1 00) - Unk	nown/known pe/hardcopy (R2)+,R0 #TT\$M SCOPE,- TT_CHĀR1(R9) #CTP\$V_CH_SCOPE,R0,10\$ #TT\$M_SCOPE,- TT_CHĀR1(R9)	: :: :	Get characteristic Set scope Branch if scope Clear scope			
04 01	50 A9	00	E0 90 05	027E 5 027E 5 027E 5	10	BBS MOVB RSB	#CTP\$V_CH_KNOWN,R0,20\$ #TT\$_UNKNOWN,TT_BUF+1(R95	Branch if known ; Set terminal type Return logical 3			
	56	82 01 52	9A 12 05 D0	0287 5 028A 5 028C 5	14 15 16 17 10 \$:	MOVZBL BNEQ RSB	(R2)+,R6 10\$		Get length of string Continue if not 0 Return Get address of string			
	FE2F	52 56 8F CF 54	00 C0 BB 9E D4	028D 5 028D 5 0290 5 0293 5 0297 5 029C 5	19 A	ADDL2 PUSHR MOVAB CLRL	R2,R7 R6,R2 M^M <r2,r3,r10> CT\$AB_TERM_TABLE,R8 R4</r2,r3,r10>		Update pointer Save registers Address of table Zero length			
01 68	58 A9 54 54 67	54 88 08 85 6 E5 6 E9	00 13 9A 91 12 29	0297 029C 029E 029E 02A1 02A5 02A7 02AA 02AB 02AB	25 26 27 28 29 30	ADDL2 MOVB SEQL MOVZBL CMPB SNEQ CMPC3 SNEQ	R4,R8 (R8)+,TT_BUF+1(R9) 30\$ (R8)+,R4 R6,R4 20\$ R6,(R7),(R8) 20\$		Get next entry Set terminal type branch if end of lis Get length compare lengths not equal, loop Compare Loop if not equal	it		
				0285 5	32 33; Termina 34 35 36 30\$:	ASSUME	TTS_UNKNOWN EQ 0		assume for end of ta	ble code		
	040C	8F	BA 05	0285 0285 0285 0289 0289 028A 028A 028A 028A 5	38	POPR	#^M <r2,r3,r10></r2,r3,r10>		Restore registers Return			
				02BA 5 02BA 5	42 OUTPUT_FL	OW_CON	TROL:	:	logical 4			

	- CTDRIVER SENSE	SE MODE PROCESSIN - Map TSA into VM	G 16-SEP-1984 (5-SEP-1984 (02:24:25 VAX/VMS Macro V04-00 03:14:35 ERTPAD.SRCJCTDSENSE.MAR;1	Page 13
	02BA 54 02BA 54 02BA 54 90 02BA 54 E9 02BD 54 C8 02CO 54	BICL BICL	#TTSM_TTSYNC,- TT_CHAR1(R9)	; Set tt sync	
50 82 04 50 20 04 A9	90 02BA 54 E9 02BD 54 C8 02CO 54 02C2 55	7 MOVB B BLBC 9 BISL	(R2)+,R0 R0,10\$ #TTSM_TTSYNC,- TT_CHAR1(R9)	<pre>; Get Boolean ; Branch if not enabled ; Set tt sync</pre>	
	05 02C4 555 02C5 555	1 10\$: RSB 2 3 OUTPUT_PAGE_STO 4 .IF DF RTPAD		; Return ; logical 5	
	02C5 550 02C5 550 02C5 550	BICL BICL	#TT\$M_HOLDSCREEN,- TT_CHAR1(R9)	; Set hold screen	
50 82 08 50 00004000 8F 04 A9	02BA 544 02BA 544 02BA 544 02BA 544 02BA 544 02BA 544 02BA 544 02BA 544 02BA 544 02BA 544 02BA 544 02BA 544 02BA 544 02BA 544 02BA 544 02CS 555 02CS B MOVB BLBC BISL	(R2)+,R0 R0,10\$ #TT\$M_HOLDSCREEN,- TT_CHAR1(R9)	; Get Boolean ; Branch if not enabled ; Set hold screen		
	05 02D3 566 02D4 566 02D4 566 90 02D4 566	10\$: RSB	THRU:	; Return ; logical 6	
50 82	90 02D4 566 E9 02D7 566 05 02DA 566 02DB 566	MÖVB BLBC 7 10\$: RSB	(R2)+,R0 R0,10\$	Get Boolean Branch if not enabled Return	
	E9 02D7 560 05 02D8 560 02DB 560 02DB 570 02DB 5	P INPUT FLOW CONT O .IF DF RTPAD BICL 2	ROL: #TT\$M_HOSTSYNC,- TT_CHAR1(R9)	; logical 7 ; Set hostsync	
50 04 50 10	90 02DB 577 E9 02DE 579 C8 02E1 579	MOVB BLBC BISL	(R2)+,R0 R0,10\$ #TT\$M_HOSTSYNC,- TT_CHAR1(R9)	: Get Boolean : Branch if not enabled	
04 A9	05 02E3 577 05 02E5 578 02E6 579			; Set hostsync ; Return	
50 82	90 02C5 556 E9 02C8 556 02CB 566 02D1 566 02D2 566 02D4 566 02D4 566 02D4 566 02D4 566 02D8 576 02DB 576 02DB 577 02DB 5	LOSS_NOTIFICATI MOVB BLBC RSB	(R2)+,R0 R0,10\$	<pre>; logical 8 ; Get Boolean ; Branch if not enabled ; Bell on loss data?</pre>	
02 A9 82	02ED 588 02ED 588 05 02F1 588 05 02F2 588	LOSS_NOTIFICATI MOVB BLBC 10\$: RSB LINE_WIDTH: MOVW RSB PAGE_LENGTH: CVTWB RSB	(R2)+,TT_BUF+2(R9)	; logical 9 ; Line width ; Return	
07 A9 82	02F2 589 33 02F2 590 05 02F6 590	PAGE_LENGTH: CVTWB RSB	(R2)+,TT_CHAR1+3(R9)	; logical 10 ; Page length ; Return	
82	05 02F9 59	STOP_LENGTH:	(R2)+	; logical 11 ; Ignore for now ; Return	
	05 02F9 599 02FA 599 02FA 599 02FA 599 02FA 600	CR FILL: B .IF DF RTPAD BICL	#TT\$M_CRFILL,- TT_CHAR1(R9)	; logical 12	

CTC

		CT_P	DRIVER SE	NSE MODE F	ROCESSIN Into VM	G 16-SEP-1984 S 5-SEP-1984	02:24:25 03:14:35	VAX/VMS Macro V04-00 [RTPAD.SRC]CTDSENSE.MAR;1	Page	14 (5)
04 AA 00000400 04	82 08 8F A9	33 13 C8	02FA 6 02FA 6 02FE 6 0300 6 0306 6	01 .ENDC 02 03 04 05 06 10\$: 07 08 LF_FILL 09 .IF DF 10 11 12 .ENDC	CVTWB BEQL BISL RSB	(R2)+,TT_IOSB+4(R10) 10\$ #TT\$M_CRFILL,- TT_CHĀR1(R9)	; Bra	nch if zero urn		
			0309 6 0309 6 0309 6 0309 6	08 LF FILL 09 .IF DF 10 11 12 .ENDC	RTPAD BICL	#TT\$M_LFFILL,- TT_CHAR1(R9)	; log	ical 13		
05 AA 00000800 04	82 08 8F A9	33 13 C8	0309 6 0300 6 030F 6 0315 6	14 15 16	CVTWB BEQL BISL	(R2)+,TT_IOSB+5(R10) 10\$ #TT\$M_LFFILL,- TT_CHAR1(R9)		nch if zero		
		05	0318 6	18	RSB		; Ret	urn		
			0318 6 0318 6 0318 6	19 WRAP: 20 .IF DF 21	RTPAD BICL	#TT\$M_WRAP,-	; log	ical 14		
			0318 6 0318 6	22 23 .ENDC		#TT\$M_WRAP,- TT_CHAR1(R9)	; set	wrap		
82 00000200 04	03 08 8F	B1 18 C8	0318 6 031B 6 031D 6	24 25 26	CMPW BGEQ BISL	#3,(R2)+ 10\$ #TT\$M_WRAP,-	: Get	wrap (value 1 to 4) 3 or less, no wrap		
04	A9	05	0323 6 0325 6	27 28 10\$:	RSB	TT_CHĀR1(R9)	; set	wrap urn		
			0326 6 0326 6	29 30 HORIZON 31 .IF DF	TAL TAB:		; log	ical 15		
			0326 6	32 33	BICL	#TT\$M_MECHTAB,- TT_CHAR1(R9)	; Set	mechtab		
82 00000100 04	01 08	B1 12 C8	0326 6 0326 6 0329 6 0328 6	34 .ENDC 35 36	CMPW BNEQ BISL	#1 (R2)+ 10\$; mec ; Bra	htab? nch if no		
04	A9	05	0331 6	38 39 10\$:	RSB	#TT\$M_MECHTAB,- TT_CHAR1(R9)	; Set ; Ret	mechtab		
	82	B5 05	0334 6 0334 6 0334 6	20 .IF DF 21 .ENDC 22 .ENDC 23 .ENDC 25 .26 27 .28 10\$: 29 HORIZON 31 .IF DF 32 .ENDC 33 .ENDC 33 .ENDC 34 .ENDC 35 .ENDC 36 .ENDC 37 .ENDC 38 .ENDC 39 .ENDC	TAB:	(R2)+	; log	ical 16 ore		
		05	0336 6 0337 6	43	RSB		; Ret	urn		
			0337 6 0337 6	45 FORM FE	RTPAD	HTTOM MECUEODM	; log	ical 17		
			0337 6	48 48 ENDC	BICL	#TT\$M_MECHFORM,- TT_CHAR1(R9)	; Set	mechform		
82	01	B1 12 C8	0337 6 033A 6	46 .IF DF 47 48 49 .ENDC 50 51 52 53 54 10\$:	CMPW BNEQ	#1 (R2)+ 10\$; mec ; Bra	h form? nch if no		
00080000	A9	05	0342 6 0344 6	53 54 10\$:	RSB	#TT\$M_MECHFORM,- TT_CHAR1(R9)	: Set : Ret	mechform urn		

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- CTDRIVER SENSE MODE PROCESSING CT_POST_SENSE - Map TSA into VMS
                                                                         16-SEP-1984 02:24:25 VAX/VMS Macro V04-00 
5-SEP-1984 03:14:35 [RTPAD.SRC]CTDSENSE.MAR;1
                                                                                                                                                           15
                                                                                                                                                   Page
                                                                                                                                                            (6)
                             656 ; cterm
657 IGNORE_1
659 660
661 10$:
662 CHAR_AT1
664 .IF DF F
666 667
668 669
670 671
672 5$:
675 676
677 678
679 680
681 682 683
688 689 690
                                    IGNORE_INPUT:
                                                                                                ; cterm 1
              90
E9
05
  00 50
50
                                                MOVB
                                                            (R2) + , R0
                                                                                                  Get Boolean
                                                BLBC
RSB
                                                            RO,10$
                                                                                                  Branch if not enabled
                                                                                                : Return
                                    CHAR_ATTRIBUTES:
                                                                                               : cterm 2
                                    . IF DF RTPAD
                                                MOVAB
                                                            OUTBAND_NEW,RO
                                                                                                  Get temporary mask
                                                            (R2)+,RT
(R2)+,R6
                                                                                                  get character
                                                MOVZBL
                                                MOVZBL
                                                                                                  Get mask
                                                MOVZBL
                                                            (R2)+,R7
                                                                                                  Get attribute
                                                CLRL
                                                                                                  Clear
                                                            R1,R4,5$
                                                                                               ; turn character into mask
                                                           #CTP$V_CH_00,-
#CTP$S_CH_00,R6,R8
#CTP$M_CH_00,R8
                                                EXTZV
                                                                                                ; Fetch isolate mask
                                                CMPB
                                                                                               ; Must be full mask
                                                BNEQ
                                                                                               ; exit *** - other things to handle here
                                                            #CTP$V_CH_OO,-
#CTP$S_CH_OO,R7,R8
#CTP$C_CH_CANCEL,R8
                                                EXTZV
                                                                                                ; Fetch attributes
                                                CMPB
                                                                                               ; Cancel?
                                                BNEQ
                                                            10$
                                                                                                   br if no
                                                            R4.00B_EXCLUDE(R0)
R4.00B_INCLUDE(R0)
R4.00B_ABORT(R0)
                                                BICL
                                                                                               ; clear them all...
                                                BICL
                                                BRB
                                                CMPB
                                                            #CTP$C_CH_ICLEAR,R8
                                                                                                  immediate clear?
                                                BEQL
                                                            20$
                                                                                                  br if yes
                                                            #CTP$C_CH_DCLEAR,R8
                                                CMPB
                                                                                                  deferred clear?
                              691
                                                BNEQ
                                                                                                  br if no
                              692 20$:
                              694
                                                ; set up abort out of band
                              695
                              696
697
                                                BISL
                                                            R4,00B_ABORT(R0)
                                                                                               ; Set abort flag
                                                BRB
                                                            100$
                              698 30$:
699
700
701
702
703
                                                CMPB
                                                            #CTP$C_CH_HELLO,R8
                                                                                                  hello?
                                                                                                  no, (sanity check really)
Branch if include not specified
Branch if include not required
                                                BNEQ
                                                            100$
                                                           #CTP$V_CH_I,R6,40$
#CTP$V_CH_I,R7,40$
R4,00B_INCLUDE(R0)
                                                BBC
                                                BBC
                                                BISL
                                                                                               ; Set include bit
                              704
705
706
707
708
709
710
                                                BRB
                                    40$:
                                                BISL
                                                            R4,00B_EXCLUDE(R0)
                                                                                               ; set exclude bit
                                    : Handle out-of-band discard
                                                                                               (D)
                                    100$:
                                                            #CTP$V_CH_D,R6,200$
R4,00B_DISCARD(R0)
                                                                                               ; Skip if not in select mask
                                                BBC
                                                BICL
                                                                                               : Assume no discard output
```

CTD

V04

CTDSENSE V04-000	- CTDRIVER CT_POST_SEN	SENSE MODE SE - Map TS	PROCESSIN A into VM	G H 4 16-SEP-1984 02 5-SEP-1984 03	2:24:25 VAX/VMS Macro VO4-00 Page 16 3:14:35 [RTPAD.SRC]CTDSENSE.MAR;1 (6)
	034C 034C 034C 034C	713 714 715 200\$: 716 : 717 : Hand	BBC BISL	#CTP\$V_CH_D_R7,200\$ R4,00B_DISCARD(R0)	; Skip if not in select mask ; Set discard output
	034C	717 : Hand 718 :	le contro	l character echoing	(EE)
	034C	719	EXTZV	#CTPSV_CH_EE	; Fetch isolate mask
	0340	721	CMPB	#CTP\$V_CH_EE,- #CTP\$S_CH_EE,R6,R8 #3,R8 300\$; specified?
	0346	723	BNEQ BICL EXTZV	R4,00B_ECHO(RO)	; nope ; assume no echo (like ^T)
	0340	725		R4,00B_ECHO(R0) #CTP\$V_CH_EE,- #CTP\$S_CH_EE,R7,R8 #CTP\$C_CH_ECHONONE,R8 300\$; Fetch real data
	0340	727	CMPB BEQL	300\$; echo none? ; yes, continue
	0340	729	CMPB BNEQ	#CTP\$C_CH_ECHOSTANDARD,	; branch if other
	0340	731 300\$:	BISL	R4,00B_ECHO(R0)	; set standard echo (like ^C)
	0340 0340 0340 0340 0340	720 721 722 723 724 725 726 727 728 729 730 731 300\$: 732 733 : *** 735 736 737 738 .IFF	code not	done for: enable/disable special	character (F)
	0340	736	RSB		; Exit
	0340	738 .1FF 739	; CTDRI	VER	
52 03	05 0346 05 034F 0350 0350	740 741 742 743 .ENDC	ADDL RSB	#3,R2	; Skip (should never really get here)
	0350	744	I O PASS	THRII:	; cterm 3
50 82 00 50	90 0350 E9 0353 05 0356	746 747 748 10\$: 749 750 RAISE 751 .IF DF 752 753 754 .ENDC 755 756 757 758 759 10\$: 760 761 NORMAL 762 763 764 765 .ENDC 766 767 768 769	L_O_PASS_ MOVB BLBC RSB	(R2)+,R0 R0,10\$; Get Boolean ; Branch if not enabled ; Return
	0357	750 RAISE 751 . IF DF	INPUT:		; cterm 4
	0357	752 . IF DF	BICL	#TT\$M_LOWER,- TT_CHAR1(R9)	
	0357	753 754 .ENDC			; Set convert lower
50 82 08 50 00000080 8F 04 A9	90 0357 E8 035A C8 035D	755 756	MOVB BLBS BISL	(R2)+,R0 R0,10\$; Get Boolean ; Branch if not enabled
00000080 8F 04 A9	C8 035D 0363	757 758		RO,10\$ #TT\$M_LOWER TT_CHAR1(R9)	; Set convert lower
	05 0365 0366	759 10\$: 760	RSB		; Return
	05 0365 0366 0366 0366 0366 0366 90 0366 E8 0369 C8 036C	761 NORMAL 762 . IF DF	-ECHO:		; cterm 5
	0366 0366	763 764	BICL	#TT\$M_NOECHO,- TT_CHAR1(R9)	; Set noecho
50 82	90 0366	765 .ENDC	MOVB	(R2)+.R0	; Get Boolean
50 82 04 50 02 04 A9	90 0366 E8 0369 C8 036C	767 768	MOVB BLBS BISL	RO.10\$ #TT\$M_NOECHO TT_CHAR1(R9)	; Branch if enabled (note opposite sense)
04 Å9	036E	769		TT_CHAR1(R9)	; Set noecho

		- CT_P	DRIVER SE	NSE MO	DE PROCESSING	S 1 4	16-SEP-1984 5-SEP-1984	02:24 03:14	25 VAX/VMS Macro V04-00 ERTPAD.SRCJCTDSENSE.MA	Page	17 (6)
		05	0370 7 0371 7	770 10 s	: RSB			: 1	Return		7-1
			0371 7 0371 7 0371 7 0371 7 0371 7	772 INP 773 OUT 774 .IF 775 776	PUT_ESCAPE_EN PUT_ESCAPE_EN DF RTPAD BICL	ABLE: NABLE: #TT\$M_ESC/ TT_CHAR1(F	APE,-	; ;	term 6 term 7		
50 ₀₄	82 50 08 A9	90 E9 C8	0371 7 0371 7 0374 7 0377 7 0379 7	777 .EN 778 779 780 781	MOVB BLBC BISL	(R2)+,R0 R0,10\$ #TT\$M_ESC/ TT_CHAR1(F	APE,-		Get Boolean Branch if not enabled		
		05	037B 7	782 10\$ 783	: RSB			; !	Return		
	82	B5 05	037C 7 037C 7 037E 7 037F 7	784 INP 785 786	PUT_COUNT_STATE TSTD RSB	TE: (R2)+		: 1	term 8 Ignore		
			037F 7 037F 7 037F 7	788 AUT 789 .IF 790 791	O PROMPT: DF RTPAD BICL	#TT\$M_SCR! TT_CHAR1(IPT,-	;	cterm 9		
50 08 00000040 04	8F	90 E9 C8	037F 037F 0382 7 0385 038B 038B 7 038E 7	792 .EN 793 794 795 796	MOVB BLBC BISL	(R2)+,R0 R0,10\$ #TT\$M_SCR! TT_CHAR1(F	[PT,-		Get Boolean Branch if not enabled		
		05	038D 7	797 10 \$ 798	: RSB			; 1	Return		
5000	82 50	90 E9 05	038E 7 038E 8 0391 8 0394 8 0395 8	799 ERR 300 301 302 108 303	ROR_PROCESSING MOVB BLBC RSB	G: (R2)+,R0 R0,10\$: 1	cterm 10 Get Boolean Branch if not enabled Return		
50 52	82 50	9A CO 05	0395 0395 0395 0398 0398 0396	798 799 ERR 300 301 302 10\$ 303 304 305 1GN 306 307 308	MOVZBL ADDL2 RSB	(R2)+,R0 R0,R2		; ;	Get length of string Add to address		

- CTDRIVER SENSE MODE PROCESSING CT_POST_SENSE - Map TSA into VMS

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CTD VO4

811 POST_SENSE_EXIT: 812 813 RSB 814 815 .end

		K 4			
CTDSENSE Symbol table	- CTDRIVER SENSE MO	DE PROCESSING 16-SEP-1984 02:24:25 VAX/VMS Macro V04-00 5-SEP-1984 03:14:35 [RTPAD.SRC]CTDSENSE.MAR;1	Page	(7)	
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page
    Symbol table
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TTSM_LOWER
TTSM_MECHFORM
TTSM_MECHTAB
TTSM_MODEM
TTSM_NOECHO
TTSM_ODD
TTSM_PARITY
TTSM_REMOTE
TTSM_SCOPE
TTSM_SCRIPT
TTSM_TTSYNC
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TTS_LA12
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16-SEP-1984 02:24:25 VAX/VMS Macro V04-00 5-SEP-1984 03:14:35 [RTPAD.SRC]CTDSENSE.MAR;1

Performance indicators ------

Phase	Page faults	CPU Time	Elapsed Time
Initialization .	32	00:00:00.06	00:00:00.47
Command processing	141 420	00:00:00.52	00:00:01.57
Symbol table sort		00:00:01.75	00:00:03.42
Symbol table output	137 20	00:00:02.14	00:00:03.20
Psect synopsis output Cross-reference output	1	00:00:00.01	00:00:00.01
Assembler run totals	753	00:00:14.62	00:00:29.11

The working set limit was 1800 pages. 86638 bytes (170 pages) of virtual memory were used to buffer the intermediate code. There were 90 pages of symbol table space allocated to hold 1619 non-local and 35 local symbols. 815 source lines were read in Pass 1, producing 16 object records in Pass 2. 19 pages of virtual memory were used to define 18 macros.

Macro library statistics !

Macro library name Macros defined _\$255\$DUA28:[SHRLIB]REM.MLB;1
_\$255\$DUA28:[RTPAD.OBJ]RTPAD.MLB;1
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries) 11

1655 GETS were required to define 11 macros.

CTDSENSE VAX-11 Macro Run Statistics

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:CTDSENSE/OBJ=OBJ\$:CTDSENSE MSRC\$:CTDSENSE/UPDATE=(ENH\$:CTDSENSE)+EXECML\$/LIB+LIB\$:RTPAD/LIB+SHRLIB\$:REM/LIB

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